IN THE CLAIMS:

Please cancel Claims 1-20 as set forth below.

Claims 1-20 (Canceled)

- 21. (Original) A method of operating a reactor, the method comprising:
 - activating a charge disposed within the reactor to open a container disposed within the reactor that contains a chemical or biological material to release the chemical or biological material into a reaction chamber of the reactor; and
 - heating the chemical or biological material with water and an oxidant contained within the chamber to a temperature and pressure that exceeds the critical temperature and critical pressure of the water to initiate a supercritical oxidation process.
- 22. (Original) The method of claim 21, wherein activating the charge produces a metal jet that cuts through the container.
- 23. (Original) The method of claim 21, wherein activating the charge detonates or deflagrates a burster of the container.
- 24. (Original) The method of claim 21, further comprising containing exploding fragments of the container within a fragment-suppression system of the reactor after opening the container.
- 25. (Original) The method of claim 21, wherein activating the charge is in response to receiving electrical power at the charge.
- 26. (Original) A method for oxidizing a chemical or biological material, the method comprising:

disposing a container containing the chemical or biological material within a tube of a fragment-suppression system located within a chamber of a reactor;

adding a water-oxidant mixture to the chamber;

- activating a charge disposed within the fragment-suppression system to open the container to release the chemical or biological material into the chamber; and
- heating the chemical or biological material with the water-oxidant mixture to a temperature and pressure that exceeds the critical temperature and critical pressure of the water to initiate a supercritical oxidation process.
- 27. (Original) The method of claim 26, further comprising containing exploding fragments of the container within the tube after opening the container.
- 28. (Original) The method of claim 26, wherein adding the water-oxidant mixture to the chamber comprises adding a base to the water-oxidant mixture.